PATENT COOPERATION TREATY

PCT

REC'D 0 3 MAY 2006

WIPO PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or ago	ent's file reference						
030213WO		FOR FURTHER ACT	ION	See Form PCT/IPEA/416			
International application No.		International filing date (d	ay/month/year)	Priority date (day/month/year)			
PCT/US04/31828		27 September 2004 (27.09		25 September 2003 (25.09.2003)			
	` '	or national classification and					
IPC: H04J 11/00 (2006.01); H04Q 7/00 (2006.01), 11/00 (2006.01) USPC: 370/208,334,369,375,380							
Applicant							
QUALCOMM IN	CORPORATED						
Exam	Examining Authority under Article 35 and transmitted to the applicant according to Article 36.						
2. This	REPORT consists o	f a total of 🕌 sheets, inclu	ding this cover shee	t.			
		panied by ANNEXES, con					
а. [<u> </u>						
sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).							
sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.							
ъ. Г			otal of (indicate type	and number of electronic carrier(s))			
b (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s)), containing a sequence listing and/or tables related thereto, in electronic form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).							
4. This	report contains indic	cations relating to the follow	wing items:				
	_	Basis of the report					
	Box No. II	Priority					
Box No. III Non-establishment of opinion with applicability			on with regard to no	velty, inventive step and industrial			
Box No. IV Lack of unity of invention							
	Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement						
	Box No. VI Certain documents cited						
	Box No. VII Certain defects in the international application						
	Box No. VIII	Certain observations on the	international applica	ation			
Date of submission of the demand			Date of completion	of this report			
25 April 2005 (25.04.2005)			30 March 2006 (30.0	3 2006)			
Name and mailing address of the IPEA/ US			Authorized officer	Rugenia Jagar 305-3900			
Mail Stop PCT, Attn: IPEA/US Commissioner for Patents			/	Villenda Souper			
P.O. Box 1450			Ricky Ngo	Juyer /			
Alexandria, Virginia 22313-1450 Facsimile No. (571) 273-3201			Telephone No. (703)	305-3900			

Form PCT/IPEA/409 (cover sheet)(April 2005)

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.	<u> </u>
PCT/HS04/31828	

DOX 110	. 1 Basis of the report						
1. With	regard to the language, this report is based on:						
\boxtimes	ne international application in the language in which it was filed.						
	a translation of the international application into <u>English</u> , which is the language of a translation furnished for the purposes of:						
	international search (under Rules 12.3 and 23.1(b))						
	publication of the international application (under Rule 12.4(a))						
	international preliminary examination (under Rules 55.2(a) and/or 55.3(a))						
to the	th regard to the elements of the international application, this report is based on (replacement sheets which have been furnished the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not nexed to this report):						
\boxtimes	the international application as originally filed/furnished						
\boxtimes	the description:						
	pages 1-49 as originally filed/furnished pages* NONE received by this Authority on						
	pages* NONE received by this Authority on						
\boxtimes	the claims:						
Kamanyi	pages <u>50-60</u> as originally filed/furnished .						
	pages* NONE as amended (together with any statement) under Article 19						
	pages* NONE received by this Authority on						
K-3	pages* NONE received by this Authority on						
\boxtimes	the drawings:						
	pages 1-18 as originally filed/furnished pages* NONE received by this Authority on						
	pages* NONE received by this Authority on pages* NONE received by this Authority on						
	a sequence listing and/or any related table(s) - see Supplemental Box Relating to Sequence Listing.						
3.	The amendments have resulted in the cancellation of:						
	the description, pages NONE						
	the claims, Nos. NONE the drawings, sheets/figs NONE the sequence listing (specify): NONE						
	the drawings, sheets/figs NONE						
	the sequence listing (specify): NONE						
	any table(s) related to the sequence listing (specify): NONE						
4.	This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).						
	the description, pages						
	the claims, Nos.						
	the drawings, sheets/figs						
	the sequence listing (specify):						
	any table(s) related to the sequence listing (specify):						
* If iten	a 4 applies, some or all of those sheets may be marked "superseded."						

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

Form PCT/IPEA/409 (Box No. V) (April 2005)

International application No. PCT/US04/31828

Box No. V Reasoned statement under Article applicability; citations and explana	35(2) with regard to novelty, inventive step or industrial ations supporting such statement					
1. Statement						
Novelty (N)	Claims 1-42	YES				
	Claims NONE	NO				
Inventive Step (IS)	Claims <u>1-42</u>	YES				
montive step (15)	Claims NONE	NO				
Industrial Applicability (IA)	Claims 1-42	YES				
	Claims NONE	NO				
 Citations and Explanations (Rule 70.7) Claims 1-42 meet the criteria set out in PCT Article 33(2)-(3), because the prior art does not disclose, teach or fairly suggest the claimed subject matter of transmitting a base stream of data and an enhancement stream of data in a wireless communication system wherein coding, modulating, and processing is not dependent on the channel realizations of the receiving entities for the base and enhancement streams. 						
2. Claims 1-42 meet the criteria set out in PCT Article 33(4), and thus hierarchical coding in a multi-antenna communication system has industrial applicability because the subject matter claimed can be made or used in industry.						
NEW CITATIONS						
US 2002/0122383 A1 (WU et al) 5 September 2002						

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/US04/31828

Box No. VI Certain documents cited

1. Certain published documents (Rule 70.10)

Application No
<u>Patent No.</u>
20050078665
20050281241
20060018247

Publication Date (day/month/year)
14 April 2005 (14.04.2005)
22 December 2005 (22.12.2005)
26 January 2006 (26.01.2006)

Filing Date (day/month/year)
25 May 2004 (25.05.2004)
22 June 2005 (22.06.2005)
22 July 2004 (22.07.2004)

Priority date (valid claim) (day/month/year) 09 October 2003 (09.10.2003) 22 June 2004 (22.06.2004) None

2. Non-written disclosures (Rule 70.9)

Kind of non-written disclosure

Date of non-written disclosure (day/month/year)

Date of written disclosure referring to non-written disclosure (day/month/year)